

NORTHWEST LININGS & GEOTEXTILE PRODUCTS, Inc. 21000 77th AVE. SOUTH KENT, WA 98032 253-872-0244

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Date: 3-2-09

PLEASE DELIVER TO: Kevin Lee
COMPANY NAME: CDM
FACSIMILE NUMBER: 425-646-9523
FACSIMILE FROM: David Iwata
COMPANY NAME: NORTHWEST LININGS & GEOTEXTILE PRODUCTS, Inc.
FACSIMILE NUMBER: (253) 872-0245 OFFICE NUMBER: (253) 872-0244
TOTAL NUMBER OF PAGES TRANSMITTED INCLUDING THIS PAGE: 3
SUBJECT: Old Rainier Brewery BMP's items



NORTHWEST LININGS & GEOTEXTILE PRODUCTS, Inc.

"Helping to Protect the Environment"
21000 77th Avenue South
Kent, WA 98032
(253) 872-0244 • (800) 729-6954
FAX: (253) 872-0245
www.northwestlinings.com

\$ 75 each reg sock

Ultra-DrainGuard®

Keep Sediment and Other Pollutants From Entering The Water System With Ultr DrainGuard Catch Basin Inserts

- Stormwater pollution has become a major concern both locally and on a national level. Ultra-DrainGuards remove waste from stormwater before it can become a problem in the water system.
- Helps comply with NPDES, 40 CFR 122.26 (1999) when used as 8est Management Practice in Storm Water Pollution Prevention Plans.
- Designed for practical use in:
 - Industrial Facilities keep oil and other contaminants from entering storm drains.
 - Construction Sites capture eroded soil and wind-blown debris.
 - Parking Lots, "Drive-Up" Retall Facilities - selected geotextiles collect oil, fuel and other contaminants that drip from cars.
- Oil & Sediment Plus Model (Part # 9219/9356) — the addition of X-Tex filter strips increases oil and grease absorption by .51. gallons, offering a total capacity of 1.38 gallons of hydrocarbon removal.





Oil & Sediment Model	
Part# 9218, 48"L x 36"W x 18"H (10-Pack)	
Weight: 10 lbs. (Part# 9218) 2 lbs. (Part# 9356)	1 2 11
Performance - Oil: Up to .87 gallons Sediment: Up to 40 lbs.	



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354/yd2 ~ \$55 a yard.

PermeaTex NWL 500 Spun Bond Geotextile

Our PermeaTex NWL 500 geotextile is a spunbonded, polypropylene geotextile that is recommended for drainage, filtration, separation, and soil reinforcement applications. Specific areas of use are subdrainage under roadways and playing fields, foundations, railway construction, rock buttresses, and slope drains. These geotextile products are resistant to ultraviolet degradation and to biological and chemical environments found in normal soil areas.

PHYSICAL PROPERTY.	UNIT US Values	TEST WETHOD	MARV VALUES US Values
Unit Weight	Oz/yd2		2.0
Roll Width Roll Length	ft ft		3' 300'
Grab Tensile	ibs	ASTM D4595	67
Grab Elongation	%	ASTM D4632	50
Punoture Strength	lbs	ASTM D4833	20
Mullen Burst	psi	ASTM D3786	80
Trapezoidal Tear	lbs	ASTM D4533	34
A.O.S.	U.S. Sieve	ASTM D4751	30
Water Permeability	cm/sec	ASTM D4491	0.10
Water Flow Rate	gpm/s.f.	ASTM D4491	184
Water Permittivity	sec	ASTM D4491	2.5

Note: Minimum average roll values are based on a 95% confidence level.

PermeaTexTM Geotextile Products are manufactured by various manufacturers for distribution by Northwest Linings. PermeaTexTM is a trade name of Northwest Linings and any use of this name without the express written consent of Northwest Linings is strictly prohibited.

The information and date contained herein are believed to be accurate and reliable. Northwest Linings makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information.

FAX TRANSMITTAL	WESTING. GEOSYNTHETIC PRODUCTS
ACF West, Inc. 16 of B.A. Harrische Oregon Geosynthelica, Inc. In Oregon und ATTN: Kalled CO. CO. DATE FA	
_	Comes IN OLANGE & BLACK.
	Dow
Woodinville Corporate Center II Bldg. A #400 15540 Woodinville-Redmond Road, Woodinville, WA 980	072 425-415-6115 Fax7F 425-415-6126

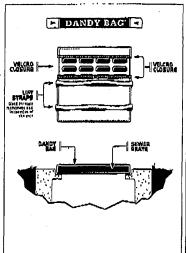
%TENCATE Mirafi

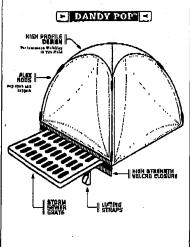
Dandy Drop Inlet Protection

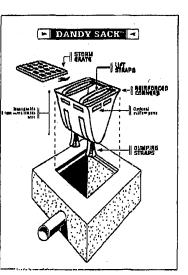
Flat Grate and Mountable Curb Inlet Protection

Technical Data for FW® 402 Geotextile

Property	Test Method	Units	Marv
Grab Tensile Strength (MD x CD)	ASTM D 4632	kN (lbs)	1.62 (365) × 0.89 (200)
Grab Tensile Elongation	ASTM 0 4632	%	24 x 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Year Strength (MD x CD)	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
Percent Open Area (POA)	COE -22125-86	%	10
Apparent Opening Size (AOS)	ASTM D 4751	mm (US Std Sieve)	0.425 (40)
Permittivity	ASTM D 4491	SOC-1	2.1
Permeability	ASTM D 4491	cm/sec	0.14
Water Flow Rate	ASTM D 4491	I/min/m2 (gal/min/ft2)	5907 (145)
Ultraviolet Resistance	ASTM D 4355	%	90
Calor ·			Orange ¹







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For more information visit environmental com-

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385 South Holland Drive Tel 800 685 9990 Pendergrass, GA 30567 Tel 708 693 2228 Fax 708 693 4400 www.mirafi.com





%TENCATE Mirafi

\$ 75 each are higher flow



Dandy Drop Inlet Protection

Flat Grate and Mountable Curb Inlet Protection

OUR COMPANY

TenCate develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

Dundy Products exclusively by TenCate, Geosynthetics have an engineered design in which suspanded salids are allowed to settle out of the slowed flow and are captured prior to entering the inlet.

QUR PRODUCTS

DANDY BAG®

The parented Dandy Bag® is designed for use with flat grates (including round) and mountable curbs to filter sediment-leden storm water.

The Difference Dandy Bag® Makes:

- Unique patented design keeps silt, sediment and debris out of storm systems.
- · Reduces the need to flush/clean inlets.
- · Febricated from orange geotextile.
- · Easy to install, inspect, and re-use.
- · Reduces outflow turbidity.

INSTALLATION GUIDELINES

Remove grate from frame and slip into Dandy Bag**. Tuck the enclosure flap inside to completely enclose the grate. Holding the lifting devices (do not rely on lifting devices to support the entire weight of the grate), place the grate into its frame.

DANDY SACK

The Dandy Sack* is an open-top bag that is designed to hang underneath a storm grate to filter sediment-laden stormwater.

The Difference Dandy Sack™ Makes:

- · Easy installation. No rebar required.
- Internal straps cradle grate for added security when installing & removing.
- 2ft, containment area is very manageable.
- · Available in 3 standard sizes.
- Available with optional oil absorbents.
- Available with patented curb blocking technology, Dandy Curb Sack.™

INSTALLATION GUIDELINES

Remove the grate from catch basin and stand on end. Move the top lifting straps out of the way and place the grate into the Dandy Sack* so that the grate is below the top straps and above the lower

straps, Holding the lifting straps, insert the grate into the inlet.

DANDY POPIA

The Dandy Pop™ is designed for use with flat field grates to filter sediment-laden water. The Dandy Pop™ fully encloses the grate, virtually eliminating sediment infitration.

The Difference Dandy Pop™ Makes:

- Unique patented design keeps silt, sediment and debris out of storm systems.
- · Easily visible to machine operators in the field.
- Pops open in a second.
- Dome design provides easy cleaning and maintenance.
- Standard sizes to fit any grate

INSTALLATION GUIDELINES

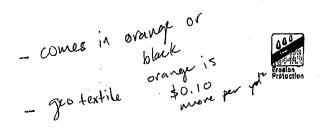
Pop open the Dandy Pop* near the injet, Remove grate from frame and place into Dandy Pop*. Pull up slack and seal hook and loop fastener to enclose the grate. Holding the lifting straps, insert the grate into the injet making sure that the grate spots completely in the frame.



Protective & Children Februs Aurospace Composites Armani Camposites ioneyeate una Industrial Fabrica Synthetic Grass STENCATE
materials that make a difference

%TENCATE Mirafi

Mirafi® FF101



Mirafi® FF101 geotextile is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FF101 geotextile is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	anical Properties Test Method Unit	Minimum Average Roll Value		
		MD	CD	
Grab Tensile Strength	ASTM D 4632	N (lbs)	667 (150)	4236 (95)
Grab Tensile Elongation	ASTM D 4632	%	17	14
Mullen Burst Strength	ASTM D 3786	kPa (psi)	1206	(175)
AOS ¹	ASTM D 4751	mm (U.S. Sieve)	0.60	(30)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	1	74 00)
Permittivity	ASTM D 4491	sec-1	2	.9
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	8	0

¹ ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Unit	Typical Value
Color	-	Black or Orange
Roll Dimensions	m	0.9 x 305
(width x length)	(ft)	(3 x 1000)
Roll Area	$m^2 (yd^2)$	275 (333)
Estimated Roll Weight	kg (lb)	50 (110)

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TENCATE materials that make a difference

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FAX TRANSMITTAL	
	GEOSYNTHETIC PRODUCTS
ACF Weat, Inc. is a D.B.A. name for Oregon Geosynthatics, Inc. in Oregon and N.W. Geos	•
• •	FAX #: 425-646-9523
SENT BY: DATE FAXED:	3/05/09 TOTAL #PAGES: 2 (Including Cover)
MESSAGE: Spar For Ultres	DRAIN CB INSERTS
Woodinville Corporate Center II Bldg. A #400 15540 Woodinville-Redmond Road, Woodinville, WA 98072	425-415-6115 800-423-4567 Fax# 425-415-6126



Ultra-DrainGuard®

SpecificationsMinimum Average Fabric Values

Properties	ASTM Test	Value
Material: Non-woven, Polypropylene Geotextile		
Size Dimensions: 48" L x 36" W x 18" H		
Grab Tensile (lbs)	D 4632	215
Elongation (%)	D 4632	50
Trapezoid Tear (lbs)	D 4533	85
Puncture (lbs)	D 4833	115
Mullen Burst (psi)	D 3786	360
Permittivity (sec-1)	D 4491	0.9
Permeability (cm/sec)	D 4491	0.25
A.O.S. (U.S. sieve no.) / Microns	D 4751	80 / 180
UV Stability (strength retained %) 500 hrs	D 4355	70
Weight (cz/yd2) (typical)	D 5261	9
Thickness (mils)	D 5199	85
Flow (through material gpm/fz)	D 4491	65
Flow (including bypass gpm) *		770
Flow (including bypass oft)		1.7
Larger bypass flow rate designs are available		

11542 Davis Creek Court Jacksonville, FL 32256 800-353-1611

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